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SPCC PLAN

for

GO-JO INDUSTRIES

NOTE: In Case of a Spill Event, Turn to Chapter 5 !!!

by:

SNELL ENVIRONMENTAL GROUP, INC.

134 W. Center Street Akron, Ohio 44308

April 1981

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CHAPTER 1.0

#### 1.0 SUMMARY AND RECOMMENDATIONS

#### 1.1 Summary

This report presents results of the site evaluation of Go-Jo Industries' new production facilities in Northampton Township. Go-Jo is in the process of relocating and expanding its hand cleaner production operations from the present Cuyahoga Street location to the facility previously occupied by Massey-Ferguson, Inc., at 3783 Akron-Cleveland Rd. (State Rt. 8). Go-Jo has also re-located its body filler production at this location. The site evaluation performed by Snell Environmental Group, Inc., involved recommendations for spill containment structures and the preparation of a Spill Prevention, Control and Countermeasure (SPCC) Plan. The SPCC Plan plus site modifications, with cost estimates where applicable, are included in this report.

#### 1.2 Recommendations

The Go-Jo SPCC Plan is designed to be readily managed by Go-Jo personnel and includes minor physical modifications to existing facilities. To fully implement the plan, the following actions are recommended:

### Phase I

- (1) Design and construct spill control structures as recommended at the North side containment area.
- (2) Establish record keeping and inspection procedures to lessen the likelihood of a spill emergency.
- (3) Establish tank truck unloading procedures as recommended.
- (4) Incorporate spill response management mechanisms into normal plant operation procedures.
- (5) Set up a training and orientation program to familiarize all employees with spill control methods and emergency spill response mechanisms.

## Phase II

(6) Design and construction resin storage and containment on the south side.

# Phase III

(7) Design and construct internal tank storage and containment on the south side.

## Phase IV

(8) Design and construct truck unloading containment area on the south side with south side drive resurfacing this year.

CHAPTER 2.0

#### 2.0 INTRODUCTION

#### 2.1 Authorization

Snell Environmental Group, Inc., was authorized to prepare spill control plans and procedures by Go-Jo Industries' purchase orders dated August 13, 1980, and September 24, 1980.

### 2.2 Scope of Services

The scope of engineering services is summarized as follows:

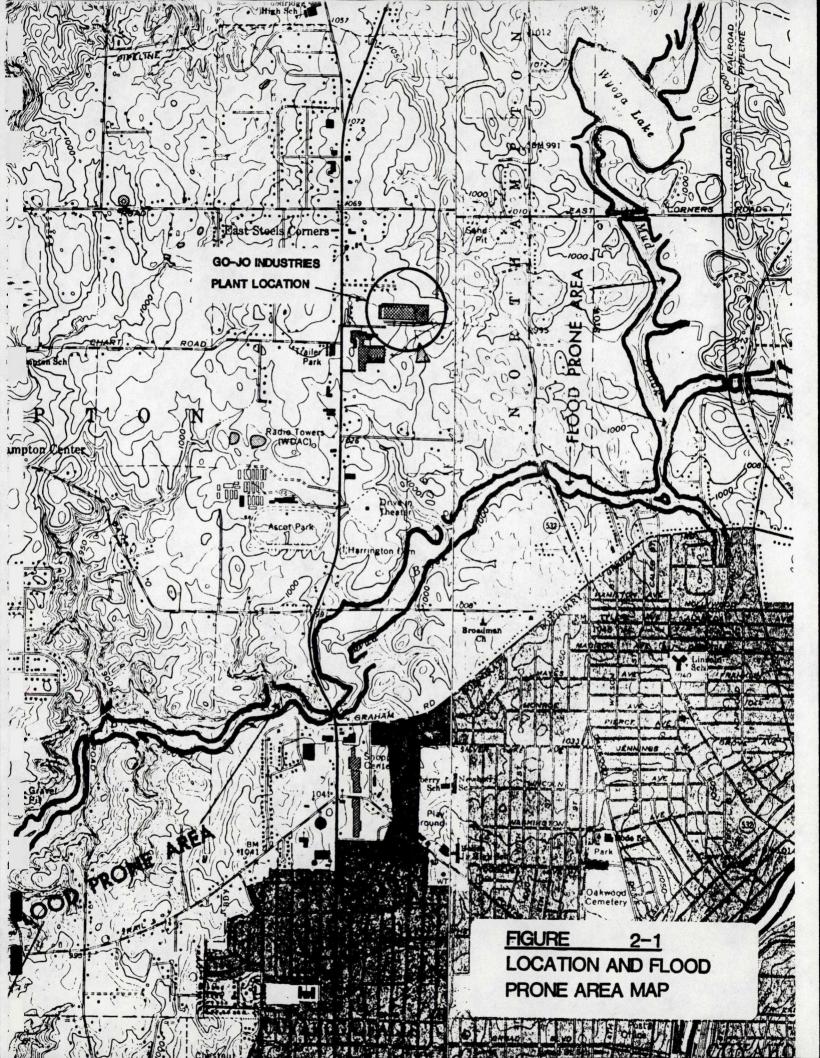
(1) Produce a Spill Prevention, Control and Countermeasure Plan for the Stoddard Solvent storage tanks (north side) and raw materials storage area (south side) in accordance with EPA regulations.

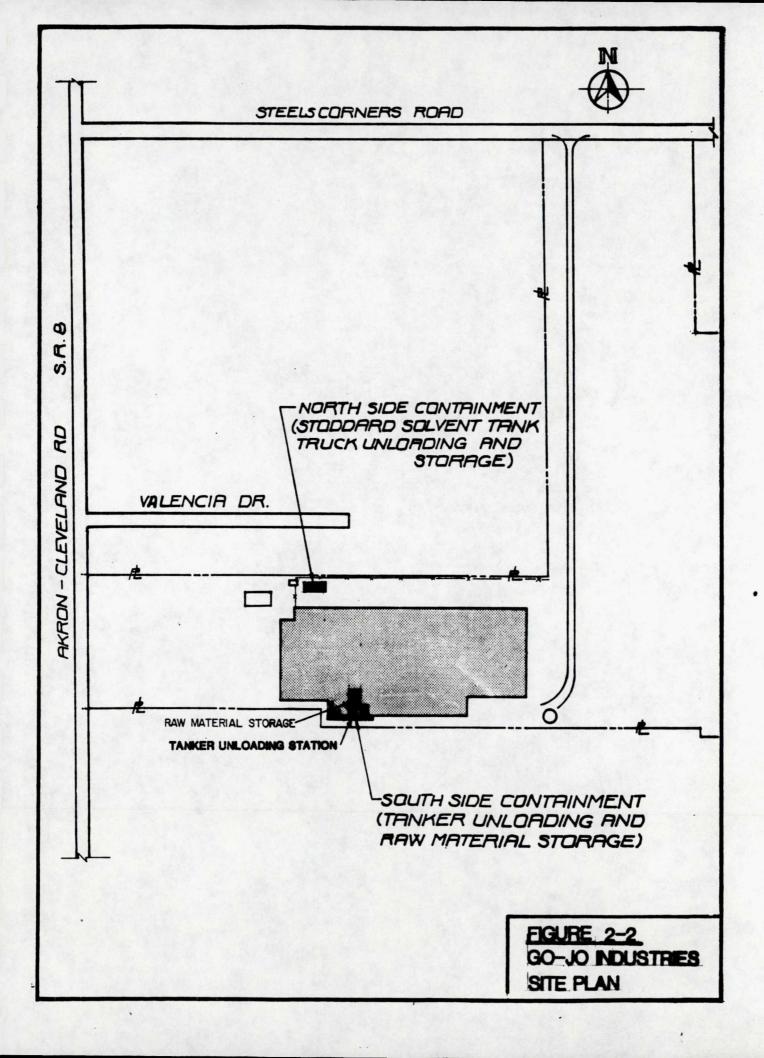
(2) Prepare recommendations for spill prevention structures and equipment at these locations.

#### 2.3 Description of Study Area

The new Go-Jo production facility is located on S.R. 8 in Northampton Township as indicated in Figure 2-1, Flood Prone Area Map. The site is located outside of the flood plain of Mud Brook which receives storm runoff from the site and drains west to the Cuyahoga River.

The spill control areas of concern are indicated in Figure 2-2. The north side Stoddard Solvent (mineral spirits) area includes a tank truck unloading station and eight buried storage tanks. The south side raw materials storage area includes a tank truck unloading station at the south wall of the building with the storage tanks located inside the building in an above ground containment area.





CHAPTER 3.0

- 3.0 DESIGN AND OPERATING INFORMATION
- 3.1 North Side Unloading and Storage Area
- 3.1.1 Design and Facility Drainage
  The storage area has eight Stoddard Solvent tanks with a volume of 20,000
  gallons each. These tanks are completely buried in a pea gravel bed in
  a tight clay pit. The pea gravel is capped with a 0.005" sheet of polyethylene
  and a layer of clay to prevent excessive surface water from entering the pit
  Figure 3-1 presents a plan view of the unloading ans storage area.

The tank fill ports are at grade and vent-overflow pipes extend twelve feet above the tanks. The tanks, discharge lines and return lines are coated for corrosion protection and all pipe joints are wrapped for extra protection.

The tank pit is dewatered by two sumps located between the second and third tank in from either end of the storage area. Submersible pumps discharge to the storm drain line located between the storage area and the building as indicated in Figure 3-1. Surface runoff from the tank truck unloading pad and storage area also drains to this storm sewer.

3.1.2 Operations and Inspection
Stoddard Solvent is transferred to production areas by pumps located inside the building and returned through separate lines. Records shall be kept current for volumes of solvent consumed, delivered, etc. along with available capacity in each tank. Visual inspection shall be performed daily, or more frequently as required, for spill detection at the dewatering sumps and status of return line valves during transfer and return operations. Inspection shall include dipstick measurements before and after solvent delivery operations, and as often as required to maintain current records of available tank capacity and material usage. Tank truck unloading operations shall be supervised by authorized plant personnel as detailed in Appendix A.

Spills at the tank truck unloading pad and containment area will only occur from overfilling or delivery hose leakage during unloading operations. Therefore, the solvent delivery record should include the following observations during any unloading operation:

(1) Date and time of delivery

(2) Tank or tanks filled (tanks should be labeled 1-8 in a conspicuous location)

(3) Available volume in each tank according to dipstick measurement
 (4) Volume delivered to each tank according to dipstick measurement

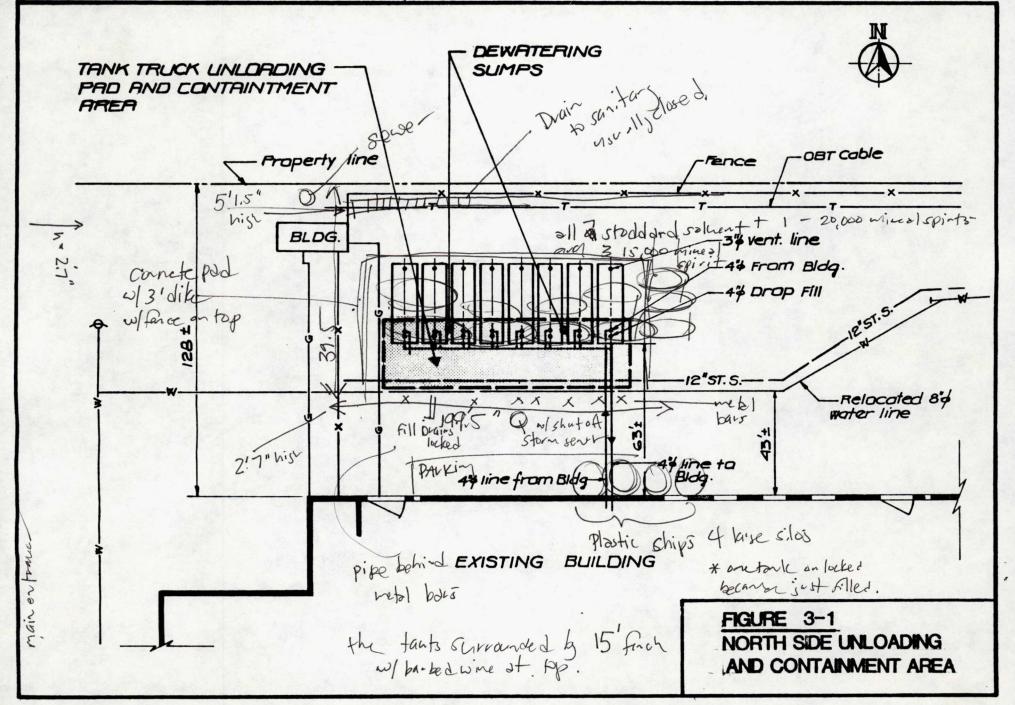
(5) Estimated volume of any overfill or hose leakage

(6) Action taken, if necessary (see Spill Alert Procedures, Chapter 5.0)

(7) Missing materials, etc. (absorbents, wheel chocks, dipsticks, etc.)

(8) Receiving Personnel's signature.

A more thorough inspection of the containment/storage area should be performed quarterly including leak surveillance of the tanks, pipelines and pumps, plus pressure testing of all inaccessible structures if warranted by a suspected leak or records of apparent material losses. Appendix B includes examples of inspection forms to be used by plant personnel.



well lighted -

#### 3.2 South Side Unloading and Storage Area

Design and Facility Drainage The tank storage area is located in a curbed 60 x 120 foot area inside the building as indicated in Figure 3-2. The raw materials listed in Table 3-1 are stored in various types of tanks which may be floor mounted or supported by concrete and metal pedestals and saddles. Curbing will provide secondary containment for the largest possible leak or accidental spill in the area, which would 3 ft. contained originate at a 14,000 gallon Tall Oil tank. The containment area also woll. contains separate fill lines, transfer lines and pumps for each different material handled. Gauging of the storage tanks is accomplished through the storage tanks use of dipsticks for those tanks not equipped with sight glasses. would take

Tank trucks deliver raw materials through fill ports located on the exterior clarge and south building wall. An asphalt drive extends the length of the building south building wall. An asphalt drive extends the length of the building with enough clearance for two-way truck traffic. A turnaround has been provided at the southwest corner of the building so that access to the unloading station is possible from either direction. Surface runoff from the drive drains to inlets on the storm sewer which flows east parallel to the building.

TABLE 3-1

South Side Raw Material Storage - internal (panellel to)

1. Detergent

2. Diisopropanolamine 85% (ont of service 1 -) monoethylanine

3. Mineral Social City

3. Mineral Social City

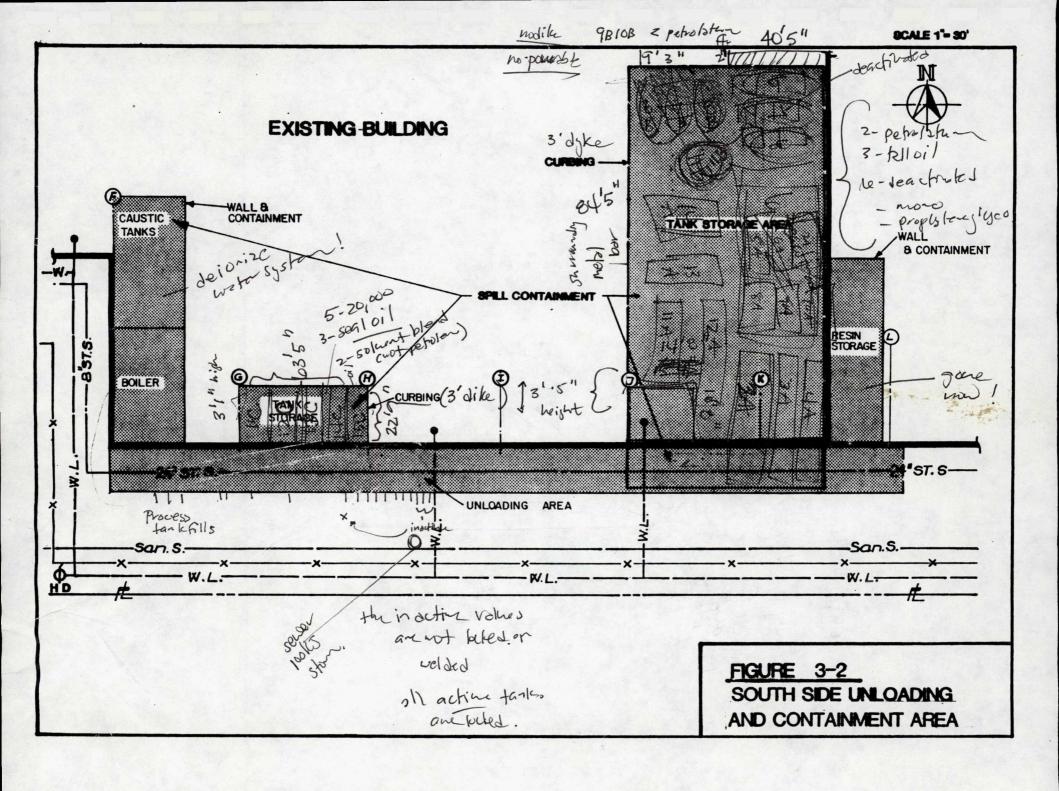
take ortback

to refertion

- 3. Mineral Seal Oil
- Monoethanolamine
- Oleic Acid changed to?
- 6. Petrolatum
- 7. Propylene Glycol
- 8. Tall Oil
- Triisopropanolamine 98% Charet to southinselse
- Polyester Resins remailed. Im process; you for site.
- Caustic Soda processing wassd used for strage.

## Operations and Inspection

In plant transfer operations between storage and production areas involve flow through pipe racks in areas where any leaks would be quickly detected. All transfer operations should be accompanied by maintaining current records of available storage capacity for reference during tank truck unloading operations. Inspection of the storage area may be flexible because any major leak or spill would be totally contained, and the drains are capped in the curbed containment area. Inspection should necessarily include tank gauging as often as necessary to maintain current storage status records. Quarterly surveillance of all tanks, pumps and transfer lines will provide an adequate record of potential leakage problems which will require maintenance.



automatic sysam once floor drains are breached. retaining port designed for

The tank truck unloading station has the highest potential for a spill emergency. Without modifications to the unloading pad, a large spill could reach the storm sewer. Small spills could be contained with the application of absorbent materials.

In addition to the tank truck unloading procedures outlined for the North Side containment area, plant personnel will also be responsible for verifying delivery hose connections to the proper fill lines and correct valve positions to shut off the line in case of check valve leakage and to re-install the caps.

External fill ports and the truck pad area should be inspected daily to detect any leakage or spills with corrective action initiated as necessary.

CHAPTER 4.0

#### 4.0 SPILL OCCURRENCE, CONTAINMENT AND CLEANUP

#### 4.1 North Side Containment Area

Any unloading spills or hose leaks would be totally contained at the Stoddard Solvent area. Such accidents would be detected immediately by the truck driver and the Go-Jo representative who would be at the storage area during unloading operations. Small spills would be covered with absorbent material and removed with materials stored nearby. Large spills would require spill removal equipment from an outside contractor capable of handling larger volume emergencies. Internal Spill Alert action would also proceed as soon as possible.

In the event of a storage tank rupture, discharge of solvent to the storm sewer could possibly go undetected depending upon the volume involved and time lag between dewatering sump inspections. In this case, spill notification procedures (Chapter 5.0) and corrective action should be initiated immediately. Minor modifications presented in Chapter 6.0 would eliminate this type of material loss.

Significant losses through the tank pit are unlikely because leak detection and corrective actions would occur long before seepage through the clay to groundwater would become a problem.

do have book; oil digital.

#### 4.2 South Side Containment Area

As indicated in Chapter 3.0, any overfill during unloading operations or storage tank and pipeline failures would be totally contained in the curbed storage area. Such occurrences would be detected immediately by personnel at the site who would initiate corrective action. Cleanup operations would involve outside contractors for large volume spills or in plant application of absorbents and portable pumps, equipment, etc. for small scale spills.

Small spills at the unloading station can be contained by application of absorbent materials with removal to drums or suitable containers by plant personnel. Large scale spills would involve external Spill Alert procedures because of the likelihood of drainage to the storm sewer in the truck drive. Modifications to the unloading area described in Chapter 6.0 will provide collection and containment of any potential large volume spills in the interior tank storage containment area.

### 4.3 General Spill Cleanup Requirements

For purposes of small scale leaks or spills which can be handled by in plant personnel, both storage and tank truck unloading stations should be equipped with a supply of basic cleanup materials. This should include absorbent materials, squeegees, shovels, portable pumps and suitable waste disposal containers, plus personnel protective apparel (boots, gloves, etc.).

CHAPTER 5.0

employees ossociated of spill progra--mixing department; knowledsoble - receiving

5.0 SPILL CONTROL AND NOTIFICATION

5.1 Notification Information

The employee or person detecting a spill or leak should take the following actions:

Procedures described.

Close storm drain valves immediately when the spill is discovered in (1) a containment area which drains to the storm sewer.

(2)Close tank or pipeline valves or shut off pumps where this is the obvious solution for stopping a leak or spill. This includes instructing tank truck operators to terminate material delivery during unloading operations.

(3) Quickly determine the following information before reporting a spill:

location of leak or spill

(b) material spilled

(c) estimated volume lost

time leak was detected (d)

\* the tanks on the entside

here no - slame

\* tanks one physical me assessment of environmental damage (loss to storm sewer, spill on unpaved surface, etc.)

(f) action taken

5.2 Internal Spill Alert Procedure

The person discovering a spill shall immediately report the above information to the following employees designated as Spill Control Coordinators in the following sequence:

(1) Department Manager

(2) Maintenance Superintendent

(3) Plant Engineer

The Spill Control Coordinator shall initiate cleanup operations and notify

the proper authorities as required and document this in a soil weekends.

the proper authorities as required and document this in a spill report.

External Spill Alert Procedure

If the spill reaches any sewer, the Spill Control Coordinator shall immediately notify the Director of Operations or the Vice President of Corporate Development who in turn will initiate notification of the following:

- (1) For spills to the sanitary sewer,
  - Akron Water Pollution Control Station (Per Sewer Connection Agreement) (a) 928-4037
- (2) For spills to any sewer
  - Ohio EPA (a) Northeast District Office - Twinsburg 1-425-9171

OEPA - Columbus or (b) 1-800-282-0270

(Section 311 CWA Part 109)

- (3) For flammable liquid spills to any sewer
  - (a) Akron Fire Department 375-2101
  - (b) Northampton Fire Department 923-4222
- (4) For spills to storm sewer
  - (a) U.S. Coast Guard National Response Center 1-800-424-8802

(Section 311 CWA Part 109)

5.4 Emergency Spill and Waste Disposal Services

When spills are of such a nature that it cannot be handled by plant personnel, the Spill Control Coordinator may utilize the following services:

Alchemtron Inc. 2516 Train Cleveland, Ohio 1-241-5775

Pollution Control Services (Coastal Industries, Inc.) P.O. Box 5555 Akron, Ohio 44313 867-8925 (AFTER 5:00 p.m., 745-5047, 825-0244, 666-5608)

Pollution Recovery Systems 1255 Old River Road Cleveland, Ohio 1-241-0333 (nights and holidays 1-221-6713 or 1-659-4809)

5.5 Document All Spills in a Spill Report

CHAPTER 6.0

#### 6.0 SPILL CONTAINMENT AREA RECOMMENDATIONS

#### 6.1 North Side Containment Area

The description of spill containment at the Stoddard Solvent unloading and storage area found in previous sections of this report is based on the surface paving and collection trench design shown in Figure 6-1.

Spill containment at the truck pad is accomplished through surface paving, curbing along the south edge of the pad, and approach and exit ramps which rise to the same elevation as the curbing. Any spill or leak on the truck pad drains to the paved collection trench which runs the length of the storage area and is bulkheaded at either end. Paving the surface over the tanks past the fill pipes allows any spills here to also drain to the collection trench.

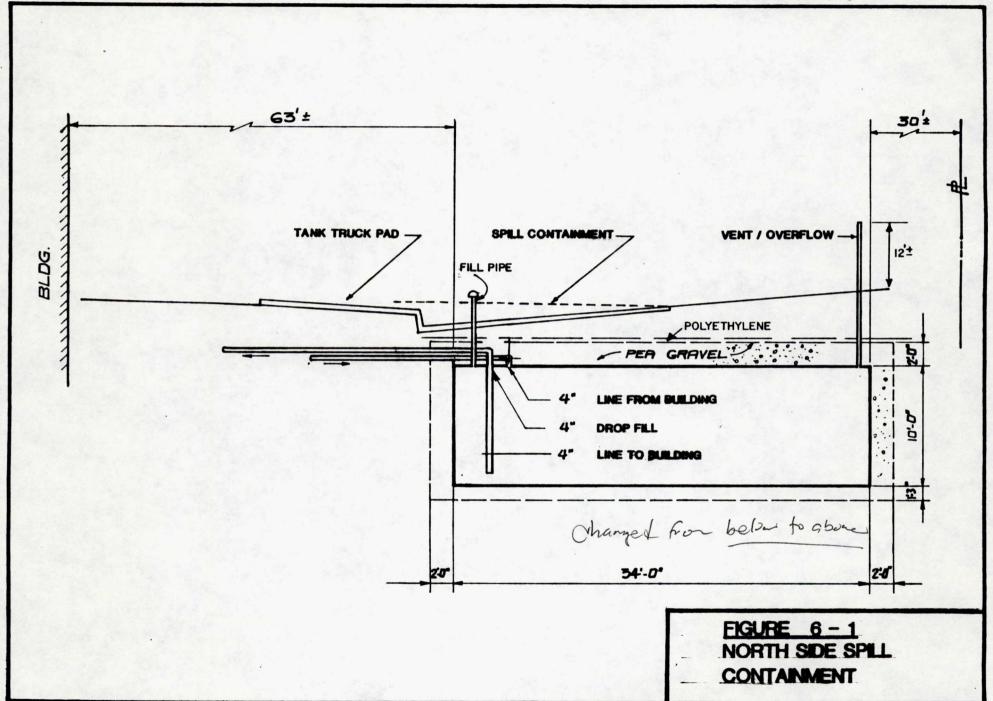
Storm runoff from the truck pad and ground surface over the tanks also collects in the containment trench which is drained by a connection to the storm sewer. This drain must be valved for containment purposes in this area. The total estimated containment volume is 15,000 gallons, which includes the tank truck capacity plus the runoff volume associated with the 1-yr. 24-hour storm drainage over a 5000 square foot area.

Paving of this surface area is also necessary for preventing a solvent spill from entering the storage tank pit. This allows dewatering sump inspections to indicate the structural integrity of the storage tanks and connected buried pipelines. To prevent a solvent discharge to the storm sewer from the pit dewatering sumps in the event of a tank or pipeline failure, the sumps should discharge to the collection trench with the storm drain valve maintained in a closed position. The containment area can then be drained manually to the storm sewer as required when inspection has verified that no solvent is present in the retained groundwater (or runoff after rainfall events).

#### 6.2 South Side Containment Area

The largest volume to be contained in the storage tank area is 14,000 gallons as indicated in Section 3.2.1. Curbing around the storage area should be at least 4" high to contain this volume, based on open floor space of 5440 square feet in the storage area.

This storage volume may also be utilized for containing a major tank truck spill at the unloading station by providing drainage through the exterior building wall from the truck pad sloped to the building. A representation of this design is shown in Figure 6-2, and will be provided in the next phase of construction when the drive is re-surfaced. By placing the drain to the interior containment area slightly above the truck pad, small volume spills would be completely contained at the unloading station, simplifying cleanup operations.



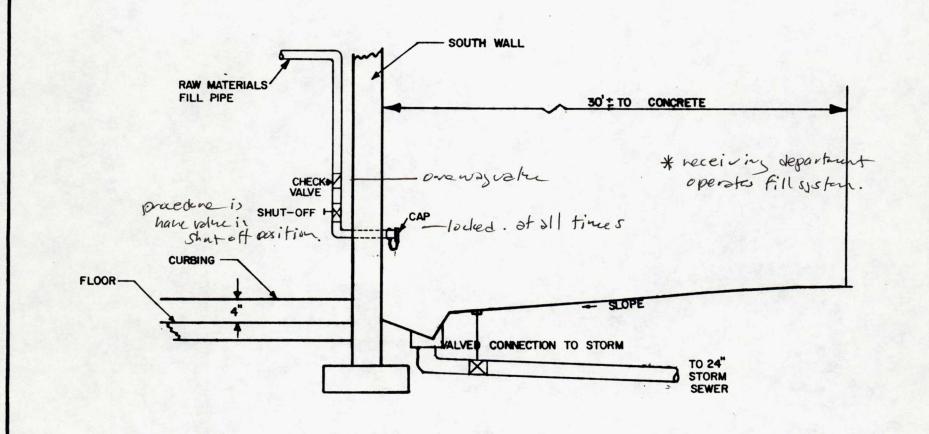


FIGURE 6-2
VIEW SOUTH SIDE

The enclosed unloading area requires a drain connection to the storm sewer, which would be valved for containment purposes. This valve could be maintained in a closed position as at the Stoddard Solvent unloading station, with the area being drained of storm runoff as necessary subject to normal spill inpsection procedures.

#### 6.3 Cost Estimates

Table 6-1 presents estimated construction costs which reflect the recommended improvements for the north side and the south side containment areas. Costs presented do not include construction contingencies and nonconstruction costs.

TABLE 6-1
Estimated Construction Costs

## (a) North Side Containment

TOTAL

	<u>Item</u>	Unit	Quantity	Unit Cost	Total Cost
	Curbing Concrete Pad Drain Piping (4") Drain Valve (4") Drain Grate	1.f. yd2 1.f. ea. ea.	100 555 20 1	\$ 5.50 30.00 30.00 200.00 130.00	\$ 550.00 16,650.00 400.00 200.00 130.00
	TOTAL				\$17,930.00
(b)	South Side Containment				
	Curbing Asphalt Drain Piping (4") Drain Valve (4") Drain Grate	l.f. ton l.f. ea. ea.	260 100 20 2 1	\$ 5.50 35.00 20.00 200.00 130.00	\$ 1,430.00 3,500.00 400.00 400.00 130.00

\$ 5,860.00

# **APPENDICES**

# APPENDIX A

TANK TRUCK UNLOADING PROCEDURE

#### TANK TRUCK UNLOADING PROCEDURE

The following will be the established tank truck unloading procedure. A copy of this procedure will be issued to tank truck drivers upon entering the facility.

- 1. Tank truck driver will contact designated plant representative.
- 2. The designated plant representative will accompany the tank truck driver to the fill-pipe area and will assist in proper spotting of the tank truck.
- 3. The tank truck driver will block the tank truck wheels to prevent truck movement.
- 4. The designated plant representative must close containment area storm drain valves or verify that such valves are in the closed position.
- 5. The designated plant representative will determine and properly record the available tank capacity before hookup between tank truck and fill pipes. The tank truck driver shall be informed of the available tank capacity and confirm the quantity delivered will fit in the tank.
- 6. The designated plant representative will confirm that the hookup is to the proper fill pipe and check valve positions as required.
- 7. The designated plant representative will then approve transfer of material.
- 8. The tank truck driver, as witnessed by the designated plant representative, will be responsible for the safe transfer of the material into the tank. The driver will remain with the truck during the transfer.
- 9. If the driver must leave the truck, he will discontinue the transfer operation.
- 10. The driver will immediately notify the designated plant representative should any spillage occur.
- 11. When delivery is complete, the driver will blow the fill lines clear into the tank. The designated plant representative will close fill line valves where applicable.
- 12. The driver will secure and inspect all discharge piping, drains and outlets for leakage.
- 13. The driver will then call the designated plant representative to check the fill pipe, confirm that the proper quantity of material has been delivered to the tank, and remove wheel blocks.
- 14. The driver will leave a delivery ticket with the designated plant representative.
- 15. The designated plant representative will complete a materials delivery inspection form or checklist for all delivery operations.

Note: After every satisfactory transfer, the designated plant representative must open storm drain valve.

# APPENDIX B

SPILL INSPECTION AND MATERIALS DELIVERY FORMS

# GO-JO INDUSTRIES

## CONTAINMENT AREA

# QUARTERLY INSPECTION REPORT

Location		Date				
Inspector						
Signature of Spill Control Coordinator						
		Date				
ITEM	SAT.	UNSAT.	REMARKS	DATE OF REPAIRS	INITIALS OF REPAIRMAN	
Absorbent Supply Available						
Hand Tools & Materials Required to Contain Spill Readily Available						
Blocks for truck wheels on hand						
Personnel Instructed of Changes in Pollution Laws						
Condition of Unloading and Containment Area						
Storage Tank Condition						
Transfer Pumps						
Transfer Lines and Valves						
Storm Drain Valves						
Other:						

## GO-JO INDUSTRIES

# DAILY CONTAINMENT AREA INSPECTION

Location	D	Date			
Inpsector					
ITEM	SAT.	UNSAT.	REMARKS	DATE OF REPAIRS	INITIALS OF REPAIRMAN
General Storage and Containment Conditions					
Cleanup Materials on Hand					
Evidence of Spills and Leakage					
Contained Storm* Runoff Uncon- taminated					
Other:					

<sup>\*</sup>If satisfactory, drain containment and resecure valve. If unsatisfactory, initiate Internal Spill Alert.

# GO-JO INDUSTRIES

# TANK TRUCK UNLOADING CHECK LIST

DATETIME	
INSPECTOR	
Wheel Chocks in Place	
Material Delivered	
Storage Tank Used	#
Available Tank Volume	
Fill Line Used	#
Hose Connections Secure	
Storm Drain Valve Closed	
Fill Line Valve Open	
Fill Line Blown Clear After Transfer	
Fill Line Valve Secured	
Storage Tank Status	
Volume Delivered	
Spills, Leaks	
Wheel Chocks Removed	
Remarks	

# GO-JO INDUSTRIES SPILL REPORT

Spill Control Coordinator	Signature		
Date			
Location			
Persons and/or Agencies No			
Material Spilled		Estimate of Quantity	
Reason for Spill			
Were spill prevention prod			
Corrective action recommer	nded:		

# APPENDIX C

SPCC PLAN CERTIFICATION

#### SPCC PLAN CERTIFICATION

1. Name of Facility: Go-Jo Industries, Inc.

2. Type of Facility: Hand Cleaner and Body Filler Manufacturing

3. Location of Facility: 3783 Akron-Cleveland Road Cuyahoga Falls, Ohio 44223

Designated person accountable for oil spill prevention at facility:

(see Section 5.0 for complete listing)

Business Phone: (216) 920-8100

#### MANAGEMENT APPROVAL

ignatur	re Robut V. Delalo	5/	1/01
ame			
itle _	Director of O puration	s	

#### CERTIFICATION

I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR, Part 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

WILLIAM JENNIN'
PANOY, J
E-35 (Seal)

William J. Bandy, Jr., P.E. Printed Name of Registered Professional Engineer

Signature of Registered Professional Engineer

Registration No. 35178

State OHIO